

for the new e-mail with an unspecified recipient, e.g., TWIMC@icu.ac.kr, and detects words at step 410.

At step 420, the classifying agent 260 traces each learning model, e.g., decision tree, corresponding to the recipient stored in the model database 240 to thereby decide which learning model includes the words indexed from the new e-mail.

At step 430, the classifying agent 260 detects a learning model corresponding to the best qualified recipient based on the result of the tracing at step 420.

At step 440, the classifying agent 260 transmits the new e-mail to the best qualified recipient and then notifies the result to the sender.

For example, it is assumed that a new e-mail with an unspecified recipient, e.g., Mail<sub>new</sub> TWIMC@icu.ac.kr, is delivered to the mail server 100. The classifying agent 260 indexes the words included in the new e-mail and analyzes the indexed words as follows:

Table 2

	building	Bill collecting	customer	bank	Account	.	.
Mail <sub>new</sub>	0	1	0	1	1	.	.

The classifying agent 260 classifies the new e-mail Mail<sub>new</sub> to the left branch of the decision tree in Fig. 3 because the e-mail contains the words, "bill collecting" and

00001000 101701  
"bank". Next, since the new e-mail Mail<sub>new</sub> does not contain the word, "customer", the Mail<sub>new</sub> is classified as the positive training data. That is, the Mail<sub>new</sub> is classified to be the same kind with the Mail 1 and the Mail 2 in table 1 and the Mail<sub>new</sub> is forwarded to Tom. Next, the classifying agent 260 sends the result that the new e-mail Mail<sub>new</sub> is forwarded to Tom to the sender of the Mail<sub>new</sub>.

In this way, the new e-mail can be forwarded to the best qualified recipient.

While the invention has been shown and described with respect to the preferred embodiments, it will be understood by those skilled in the art that various changes and modifications may be made without departing from the spirit and scope of the invention as defined in the following claims.